

## STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Chiang S. Cheah et al.

Application No./Patent No.: 10/754,950

Filed/Issue Date: January 9, 2004

Entitled: IMAGE ACQUISITION TIMING SYSTEM AND METHOD

APTINA IMAGING CORPORATION, a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; OR
2. ☐ an assignee of less than the entire right, title and interest. The extent (by, percentage) of its ownership interest is \_\_\_\_\_ %

in the patent application/patent identified above by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

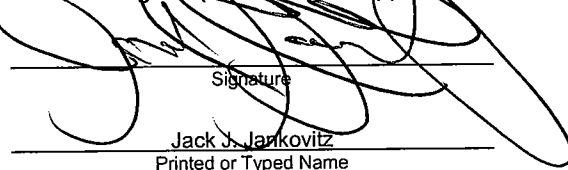
1. From: C. S. Cheah; B L.H. Chan; T. S. Liew; M. Y. Mau To: Agilent Technologies, Inc.  
The document was recorded in the United States Patent and Trademark Office at Reel 014525, Frame 0603, or for which a copy thereof is attached.
2. From: Agilent Technologies, Inc. To: AVAGO Technologies General IP PTE. LTD.  
The document was recorded in the United States Patent and Trademark Office at Reel 017206, Frame 0666, or for which a copy thereof is attached.
3. From: AVAGO Technologies General IP PTE. LTD. To: AVAGO Technologies Imaging IP PTE. LTD.  
The document was recorded in the United States Patent and Trademark Office at Reel 017675, Frame 0738, or for which a copy thereof is attached.
4. From: AVAGO Technologies Imaging IP PTE. LTD. To: AVAGO Technologies Sensor IP PTE. LTD.  
The document was recorded in the United States Patent and Trademark Office at Reel 017675, Frame 0691, or for which a copy thereof is attached.

☒ Additional documents in the chain of title are listed on a supplemental sheet.

☒ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 36 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

  
\_\_\_\_\_  
Signature  
Jack J. Jankovitz  
Printed or Typed Name

December 15, 2008  
Date

610-407-0700  
Telephone Number

Authorized to Act on Behalf of Assignee  
Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1460, Alexandria, VA 22304-1460.

If you need assistance completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**STATEMENT UNDER 37 CFR 3.73(b)**

(supplemental sheet.)

5. From: AVAGO Technologies Imaging Holding Corp. To: AVAGO Technologies Sensor IP PTE. LTD.

The document was recorded in the United States Patent and Trademark Office at Reel 021603, Frame 0690, or for which a copy thereof is attached.

6. From: AVAGO Technologies Imaging Holding Corp. To: Micron Technology, Inc.

The document was recorded in the United States Patent and Trademark Office at Reel 018757, Frame 0159, or for which a copy thereof is attached.

7. From: AVAGO Technologies Imaging Holding Corp. To: Micron Technology, Inc.

The document was recorded in the United States Patent and Trademark Office at Reel 019028, Frame 0237, or for which a copy thereof is attached.

8. From: Micron Technology, Inc. To: Aptina Imaging Corporation

The document was recorded in the United States Patent and Trademark Office at Reel , Frame , or for which a copy thereof is attached.

10/754,950 Image acquisition timing system and method

12-11-  
2008::09:57:12**Patent Assignment Abstract of Title****Total Assignments: 7****Application #:** 10754950**Filing Dt:** 01/09/2004**Patent #:** NONE**Issue Dt:****PCT #:** NONE**Publication #:** US20050151721**Pub Dt:** 07/14/2005**Inventors:** Chiang Sun Cheah, Bernard Ly Chan, Tong Seng Liew, Ming Yong Mau**Title:** Image acquisition timing system and method**Assignment: 1****Reel/Frame:** 014525 / 0603**Received:** 04/16/2004**Recorded:** 04/16/2004**Mailed:** 04/23/2004**Pages:** 3**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).**Assignors:** CHEAH, CHIANG SUN**Exec Dt:** 12/15/2003

CHAN, BERNARD LYE HOCK

**Exec Dt:** 12/15/2003

LIEW, TONG SENG

**Exec Dt:** 12/15/2003

MAU, MING YONG

**Exec Dt:** 12/15/2003**Assignee:** AGILENT TECHNOLOGIES, INC.

P.O. BOX 7599, LEGAL DEPARTMENT, DL429

INTELLECTUAL PROPERTY ADMINISTRATION

LOVELAND, COLORADO 80537-0599

**Correspondent:** AGILENT TECHNOLOGIES, INC.

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**Assignment: 2****Reel/Frame:** 017206 / 0666**Received:** 02/22/2006**Recorded:** 02/22/2006**Mailed:** 02/23/2006**Pages:** 205**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).**Assignor:** AGILENT TECHNOLOGIES, INC.**Exec Dt:** 12/01/2005**Assignee:** AVAGO TECHNOLOGIES GENERAL IP PTE. LTD.

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**Assignment: 3****Reel/Frame:** 017675 / 0738**Received:** 05/25/2006**Recorded:** 05/25/2006**Mailed:** 05/26/2006**Pages:** 33**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).**Assignor:** AVAGO TECHNOLOGIES GENERAL IP (SINGAPORE) PTE. LTD.**Exec Dt:** 01/27/2006**Assignee:** AVAGO TECHNOLOGIES IMAGING IP (SINGAPORE) PTE. LTD.

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**Assignment: 4****Reel/Frame:** 017675 / 0691**Received:** 05/25/2006**Recorded:** 05/25/2006**Mailed:** 05/26/2006**Pages:** 47**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).**Assignor:** AVAGO TECHNOLOGIES IMAGING IP (SINGAPORE) PTE. LTD.**Exec Dt:** 04/30/2006**Assignee:** AVAGO TECHNOLOGIES SENSOR IP PTE. LTD.

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**Assignment: 5****Reel/Frame:** 021603 / 0690**Received:** 10/01/2008**Recorded:** 10/01/2008**Mailed:** 10/01/2008**Pages:** 69**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).**Assignor:** AVAGO TECHNOLOGIES SENSOR IP PTE. LTD.**Exec Dt:** 11/22/2006**Assignee:** AVAGO TECHNOLOGIES IMAGING HOLDING CORPORATION

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 BERWYN, PA 19312

**Assignment: 6****Reel/Frame:** 018757 / 0159**Received:** 01/09/2007**Recorded:** 01/03/2007**Mailed:** 01/16/2007**Pages:** 37**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).**Assignor:** AVAGO TECHNOLOGIES IMAGING HOLDING CORPORATION**Exec Dt:** 12/06/2006**Assignee:** MICRON TECHNOLOGY, INC.

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**Assignment: 7****Reel/Frame:** 019407 / 0441**Received:** 06/07/2007**Recorded:** 03/07/2007**Mailed:** 06/12/2007**Pages:** 37**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).**Assignor:** AVAGO TECHNOLOGIES IMAGING HOLDING CORPORATION**Exec Dt:** 12/06/2006**Assignee:** MICRON TECHNOLOGY, INC.

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Search Results as of: 12/11/2008 09:56:52 AM

**Disclaimer:****Assignment information on the assignment database reflects assignment documents that have been actually recorded.****If the assignment for a patent was not recorded, the name of the assignee on the patent application publication or patent may be different.****If you have any comments or questions concerning the data displayed, contact OPR / Assignments at 571-272-3350****Close Window**

## PATENT ASSIGNMENT AGREEMENT

### 1. Definitions

- (a) "Agreement" shall mean this Patent Assignment Agreement.
- (b) "Assignee" shall mean **Aptina Imaging Corporation**, a Cayman Islands corporation with offices at c/o Citco Trustees (Cayman) Limited, Regatta Office Park, West Bay Road, Grand Cayman, Y1-1205, Cayman Islands.
- (c) "Assignor" shall mean **Micron Technology, Inc.**, a Delaware corporation with offices at 8000 South Federal Way, Boise, ID 83707.
- (d) "Effective Date" shall mean October 3, 2008.
- (e) 
- (f) 
- (g) "Imaging Patents" shall mean those patents identified in ATTACHMENT "A" hereto, including, without limitation, all divisions, continuations, continuations-in-part, reissues, reexaminations, and all foreign counterparts thereof, and which may issue thereon or in connection therewith after the Effective Date of this Agreement.
- (h) "Imaging Patent Applications" shall mean those filed patent applications identified in ATTACHMENT "B" hereto, including, without limitation, all patents, divisions, continuations, continuations-in-part, reissues, reexaminations, and all foreign counterparts which may issue thereon or in connection therewith after the Effective Date of this Agreement.
- (i) "Semiconductor Patents" shall mean those patents identified in ATTACHMENT "D" hereto, including, without limitation, all divisions, continuations, continuations-in-part, reissues, reexaminations, and all foreign counterparts thereof, and which may issue thereon or in connection therewith after the Effective Date of this Agreement.

(j) "Semiconductor Patent Applications" shall mean those filed patent applications identified in ATTACHMENT "E" hereto, including, without limitation, all patents, divisions, continuations, continuations-in-part, reissues, reexaminations, and all foreign counterparts which may issue thereon or in connection therewith after the Effective Date of this Agreement.

(k) [REDACTED]

2. [REDACTED]

(a) Subject to the terms and conditions of this Agreement, and subject to the rights of others existing as of the Effective Date of this Agreement if any, Assignor, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, hereby sells, assigns, and transfers to Assignee its entire right, title and interest in and to the Imaging Patents, including all rights to causes of action and remedies related thereto (including the right to sue for past, present or future infringement of rights related to the foregoing and the right to collect damages therefor). Assignor hereby authorizes and requests the Commissioner of Patents of the United States, and any other official of the United States and any country foreign to the United States whose duty it is to issue or record patents, to issue the Imaging Patents to Assignee and to record assignment of the Imaging Patents to Assignee.

(b) Subject to the terms and conditions of this Agreement, and subject to the rights of others existing as of the Effective Date of this Agreement if any, Assignor, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, hereby sells, assigns, and transfers to Assignee its entire right, title and interest in and to the Intellectual Property rights in the Imaging Patent Applications. Assignor hereby authorizes and requests the Commissioner of Patents of the United States, and any other official of the United States and any country foreign to the United States whose duty it is to issue or record patents, to record assignment of the Imaging Patent Applications to Assignee.

(c) [REDACTED]

(d) Subject to the terms and conditions of this Agreement, and subject to the rights of others existing as of the Effective Date of this Agreement if any, and subject further to the restrictions on the Semiconductor Patents set out below, Assignor, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, hereby sells, assigns, and transfers to Assignee its entire right, title and interest in and to the Semiconductor Patents, including all rights to causes of action and remedies related thereto (including the right to sue for past, present or future infringement of rights related to the foregoing and the right to collect damages therefor). Assignor hereby authorizes and requests the Commissioner of Patents of the United States, and any other official of the United States and any country foreign to the United States whose duty it is to issue or record patents, to issue the Semiconductor Patents to Assignee and to record assignment of the Semiconductor Patents to Assignee.

(e) Subject to the terms and conditions of this Agreement, and subject to the rights of others existing as of the Effective Date of this Agreement if any, [REDACTED], Assignor, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, hereby sells, assigns, and transfers to Assignee its entire right, title and interest in and to the Intellectual Property rights in the Semiconductor Patent Applications. Assignor hereby authorizes and requests the Commissioner of Patents of the United States, and any other official of the United States and any country foreign to the United States whose duty it is to issue or record patents, to record assignment of the Semiconductor Patent Applications to Assignee.

(f)

[REDACTED]

[REDACTED]

[REDACTED]

3 [REDACTED]

[REDACTED]

4. [REDACTED]

[REDACTED]

5. [REDACTED]

[REDACTED]

[REDACTED]

6. [REDACTED]

[REDACTED]

7. General

This Agreement shall be effective as of the Effective Date hereof and shall be binding on the respective heirs, assigns, representatives, and successors of Assignor and of Assignee.

[the rest of this page intentionally left blank]



Agreed to by:

**Micron Technology, Inc.**

Signed: \_\_\_\_\_

Date: 9/26/08, 2008

**Notarization**

State of Idaho

County of Ada

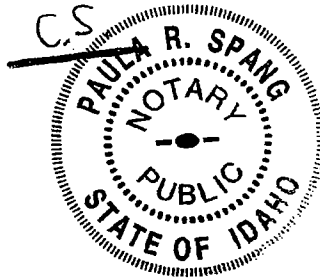
On 9/26/08, before me, Paula R. Spang, personally appeared the above-named Steven R. Appleton

(date) (notary name)  
who executed this Assignment in my presence and acknowledged to me that he did so of his own free will and in his authorized capacity for the purposes set forth herein.

Signed: \_\_\_\_\_

My commission expires: 8/12/11

REVIEWED  
MTI LEGAL



Agreed to by:

**Aptina Imaging Corporation**

Signed: \_\_\_\_\_

Date: 9/26/08, 2008

**Notarization**

State of Idaho

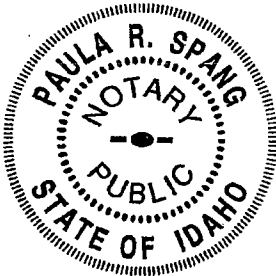
County of Ada

On 9/26/08, before me, Paula R. Spang, personally appeared the above-named Thomas L. Lauer, Jr.

(date) (notary name)  
who executed this Assignment in my presence and acknowledged to me that he did so of his own free will and in his authorized capacity for the purposes set forth herein.

Signed: \_\_\_\_\_

My commission expires: 8/12/11



[Signature page to the Patent Assignment Agreement]

**ATTACHMENT "A"**

[REDACTED]

ATTACHMENT "B"



## Aptina Applications

FILE NUMBER	TITLE	STATUS	COUNTRY NAME	APPLICATION NUMBER	DATE FILED
AVGO-0177.00/DE	Semiconductor packaging structure	Abandoned	Germany	103433007	Sep 18, 2003
AVGO-0177.00/JP	Semiconductor packaging structure	Abandoned	Japan	2003384708	Nov 14, 2003
AVGO-0177.00/MY	Semiconductor Packaging Structure	Abandoned	Malaysia	20024261	Nov 14, 2002
AVGO-0177.00/US	Semiconductor packaging structure	Abandoned	United States of America	10649006	Aug 26, 2003
AVGO-0178.00/JP	Fixed-focus digital camera with defocus correction and a method thereof	Pending	Japan	2003407649	Dec 5, 2003
AVGO-0178.00/US	Fixed-focus digital camera with defocus correction and a method thereof	Abandoned	United States of America	10313598	Dec 5, 2002
AVGO-0179.00/EP	DIGITAL IMAGING CIRCUIT AND METHOD	Pending	European Patent Office	003063021	Jul 24, 2000
AVGO-0180.00/JP	APPARATUS AND METHOD FOR PROTECTING INTEGRATED CIRCUIT CHARGE STORAGE ELEMENTS FROM PHOTO-INDUCED CURRENTS	Pending	Japan	P2001089146	Mar 27, 2001
AVGO-0181.00/US	Image Acquisition Timing System And Method	Pending	United States of America	10754950	Jan 9, 2004
AVGO-0182.00/EP	Interlayer Dielectric For Passivation Of An Elevated Integrated Circuit Sensor Structure	Abandoned	European Patent Office	003038221	May 8, 2000
AVGO-0182.00/JP	Interlayer Dielectric For Passivation Of An Elevated Integrated Circuit Sensor Structure	Pending	Japan	P2000127497	Apr 27, 2000
AVGO-0185.00/CN	Methods for packaging an image sensor and a packaged image sensor	Pending	China	2006100928909	May 26, 2006
AVGO-0185.00/DE	Methods for packaging an image sensor and a packaged image sensor	Pending	Germany	1020060238796	May 22, 2006
AVGO-0185.00/HK	Methods for packaging an image sensor and a packaged image sensor	Pending	Hong Kong	071086627	Jun 21, 2007

ATTACHMENT "C"



ATTACHMENT "D"

[REDACTED]

ATTACHMENT "E"

